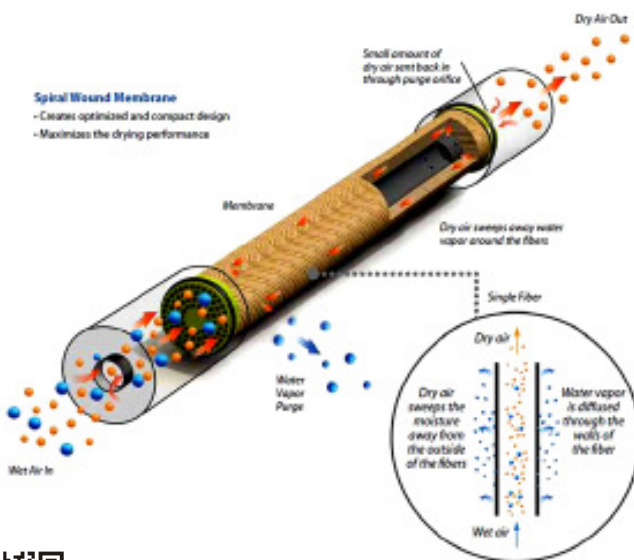
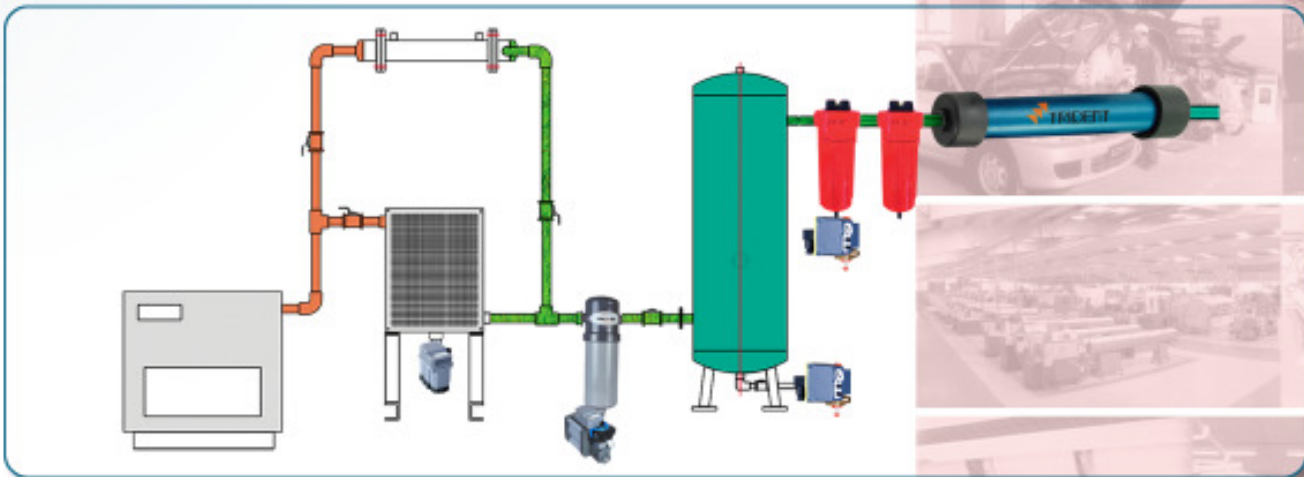


Lasting Values



Membrane Dryer

- Less space - Compact inline design.
- No Electricity requirement.
- No moving parts - Maintenance free.
- Can be used in Hazardous area - Explosion proof.
- Performs better irrespective of external environments.
- No consumable (Refrigerants or Desiccants).



Working Principle :

The Humid compressed air consists of N₂, O₂-Water vapours and traces of other gases passed through a bundle of hollow fibres. The hollow fibres are composed of a membrane specifically designed to attract and adsorb the water vapour. In order to desorb the water vapour the partial flow of dried air expanded to atmospheric pressure and passed through outside of the hollow fibre bundle in a counter flow direction, which will flush out the moisture.

In order to ensure better membrane life, the dryer will be supplied with two stage filtration viz particulate and a coalescer.

Trident Innovative technology membrane compressed air dryers are very compact in construction (Less space), Corrosion free, Noise less, no electricity requirement, and No moving parts hence maintenance free. Can be easily installed and can be used in various applications.

Specification of Dryers

Dew Point (PDP) deg C	15	3	-20	-40	Recommended Filters	
Dewpoint Atmospheric Deg C	-15	-26	-40	-70	Particulate	Coalescing
Purge Loss	10%	14%	21%	29%	filter	filter
	cfm					
TMD-3	3.5	2.5	1.7	1.2		
TMD-5	5	3.5	2.5	1.8	G-24 X IA	G-24 Y IA
TMD-10	10.5	7.5	5	3.5		
TMD-20	21	15	10	7		
TMD-30	28	20	13	10	G-100 X IA	G-100 Y IA
TMD-45	48	34	22	16		
TMD-60	60	42	28	20		
TMD-100	100	75	50	36	G-250 X IA	G-250 Y IA

Specification :

Operating temperature	2 to 60°C
Operating pressure	7 bar (g)
Max operating pressure	12 bar (g)
Particulate filter	1 µm
Coalescing filter	0.01 µm

Applications

- Medical Air • Analytical Equipments • Pressuring Electrical Cabinets
- Pneumatics • Painting
- Industrial Point-of-use Application
- Ozone generation

Performance correction factors for different pressures

4	5	6	7	8	9	10	11	12
0.41	0.56	0.76	1	1.22	1.48	1.76	1.86	2.22

How to order

Inlet flow 20 Cfm
Working pressure 5kg/cm²

Referring table Factor $P_i = 0.56$
Dryer capacity Required $\frac{\text{Flow}}{P_i} = \frac{20}{0.56}$
Capacity required = 35 cfm

Select the model considering 35 cfm flow, also refer the dewpoint requirement from the specification chart.

Manufacturing Facility



Our Presence



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93113 10726

Hyderabad & Kolkatta
98854 45321

Mumbai & Pune
98673 67726

Our other Range of Products

- Time based Auto Drain Valve • Level Sensing Auto Drain Valve • Refrigeration Dryer • Blower Reactivated Dryer • Submicron Filter • Oil Water Separator

